Claims

1. A method for realizing charging, comprising the steps of:

a. setting up a mapping relation between service attribute of a to-be-charged service and charging rule of the to-be-charged service;

b. acquiring the service attribute of the to-be-charged service when the to-be-charged service is needed to be charged;

c. acquiring the charging rule of the to-be-charged service through the service attribute of the to-be-charged service, according to the mapping relation between the service attribute and the charging rule;

d. charging the to-be-charged service, according to the acquired charging rule of the to-be-charged service.

2. The method according to claim 1, wherein said service attribute at least comprises service identifier and service charging type.

3. The method according to claim 2, wherein the step a comprises:

a1. setting up a mapping relation among said service identifier, said service charging type and field name included in service charging attribute;

a2. setting up a mapping relation between service charging attribute and said charging rule.

4. The method according to claim 3, wherein the step c comprises:

c1. according to the mapping relation among said service identifier, said service charging type and field name included in service charging attribute, the field names included in service charging attribute of the to-be-charged service being acquired through service identifier and service charging type of the to-be-charged service;

c2. confirming service charging attribute of the to-be-charged service according to the field names included in service charging attribute of the to-be-charged service;

c3. according to the mapping relation between said service charging attribute and said charging rule, the charging rule of the to-be-charged service being acquired through said service charging attribute of the to-be-charged service.

5. The method according to claim 3, wherein the step a1 comprises:

a11. setting up a mapping relation among said service identifier, said service charging type and flag of selective service charging attribute;

a12. setting up a mapping relation between the flag of selective service charging attribute and said field names included in service charging attribute.

6. The method according to claim 5, wherein the step c comprises:

c4. according to the mapping relation among said service identifier, said service charging type and said flag of selective service charging attribute, a flag of selective service charging attribute of the to-be-charged service being acquired through said service identifier and said service charging type of the to-be-charged service;

c5. according to the flag of selective service charging attribute of said to-be-charged service, the field names included in service charging attribute of said to-be-charged service being acquired;

c6. according to the mapping relation between the flag of selective service charging attribute and the field names included in service charging attribute, confirming service charging attribute of said to-be-charged service through the field names included in service charging attribute of said to-be-charged service;

c7. according to the mapping relation between said service charging attribute and said charging rule, the charging rule of the to-be-charged service being acquired through the service charging attribute of said to-be-charged service.

7. The method according to claim 5, wherein the step a11 comprises:

a111. setting up a mapping relation between said service identifier and a service charging category;

a112. setting up a mapping relation among said service charging category, service charging type and flag of selective service charging attribute.

8. The method according to claim 7, wherein said mapping relation between the service charging identifier and the service charging category comprises a mapping relation among said service identifier, service charging category and discount information;

wherein, the discount information comprises information of periodic discount and quantity discount.

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9. The method according to claims 7 or 8, wherein said mapping relation among said service charging category, service charging type and flag of selective service charging attribute comprises:

a mapping relation among said service charging category, service charging type, flag of selective service charging attribute, charging rule and subordinate charging rule;

wherein, said subordinate charging rule comprises a minimum session quantity charging policy and a session quantity rounding policy.

10. The method according to claim 5, wherein said mapping relation among said service charging category, service charging type and flag of selective service charging attribute comprises a mapping relation among said service charging category, service charge type, flag of selective service charging attribute, charging rule and subordinate charging rule;

wherein said subordinate charging rule comprises a minimum session quantity charging policy and a session quantity rounding policy.

11. The method according to claim 10, wherein the table recording the mapping relation between said service charging attribute and charging rule is a sub-table of the table recording the mapping relation between said flag of selective service charging attribute and the field names included in said service charging attribute, and the two tables are correlated by service charging attribute identifier;

fields relating to said service charging attribute in the table recording the mapping relation between said service charging attribute and charging rule are corresponding to fields relating to the field names included in said service charging attribute in the table recording the mapping relation between said flag of selective service charging attribute and the field names included in said service charging attribute.

12. The method according to claim 11, wherein field number of said table recording the mapping relation between said service charging attribute and charging rule and field number of the table recording the mapping relation between said flag of selective service charging attribute and the field names included in said service charging attribute are larger than that of any service charging attribute, respectively.

13. The method according to claim 10, wherein the method further comprises the step of:

when it needs to add more field names included in service charging attribute, column information are added to a corresponding record of the table recording the mapping relation between said service charging attribute and charging rule, as well as to a corresponding record of the table recording the mapping relation between said flag of selective service charging attribute and the field names included in said service charging attribute.

14. The method according to claim 7, wherein the step c comprises:

c8. acquiring service charging category and discount of said to-be-charged service through the service identifier of said to-be-charged service, according to the mapping relation between said service identifier and service charging category;

c9. determining whether the service charging attribute being needed to be acquired by judging whether the mapping relation among service charging category, service charging type and flag of selective service charging attribute comprises the charging rule that is corresponding to service charging category and service charging type of the to-be-charged service, and, if yes, executing step c91, otherwise executing c95;

c91. according to the mapping relation among said service charging category, service charging type and flag of selective service charging attribute, acquiring the flag of selective service charging attribute and the subordinate charging rule that are corresponding to said service charging category and service charging type;

c92. according to the flag of selective service charging attribute of the to-be-charged service, acquiring the field name of said service charging attribute of said to-be-charged service;

c93. according to the field names of said service charging attribute of the to-be-charged service, acquiring the service charging attribute of the to-be-charged service;

c94. according to said service charging attribute of the to-be-charged service, acquiring the charging rule of the to-be-charged service;

c95. acquiring the charging rule and subordinate charging rule that are corresponding to the service charging category and service charging type.

15. The method according to claim 14, wherein the step d comprises:

charging the to-be-charged service according to the charging rule, discount information and subordinate charging rule.

16. A charging system based on the above-mentioned method realizing charging, comprising:

a module for acquiring charging rule and a charging processing module, wherein the module for acquiring charging rule acquires the charging rule corresponding to the to-be-charged service according to service attribute of the to-be-charged service, and transmits the charging rule to the charging processing module;

the charging processing module charges the to-be-charged service according to the transmitted charging rule.

17. The charging system according to claim 16, wherein the module for acquiring charging rule comprises:

a sub-module for acquiring service charging category, a judging sub-module, a sub-module for acquiring service charging attribute, and a sub-module for acquiring service charging rule; wherein,

the sub-module for acquiring service charging category is used to acquire the discount and service charging category which are corresponding to the to-be-charged service according to service identifier of the service attribute of the to-be-charged service, and outputs the discount to the charging processing module, and outputs the service charging category to the judging sub-module;

according to the received service charging category, the judging sub-module determines whether a service charging attribute is needed to be acquired by judging whether the mapping relation among said service charging category, service charging type and flag of selective service charging attribute comprises the charging rule that is corresponding to the to-be-charged service; if no, the judging sub-module notifies the sub-module for acquiring service charging rule not to acquire the service charging attribute of the to-be-charged service; if yes, the judging sub-module notifies the sub-module for acquiring service charging attribute to acquire the service charging attribute of the to-be-charged service;

when the sub-module for acquiring service charging attribute receives the notification of acquiring the service charging attribute of the to-be-charged service,

according to the mapping relation among the service charging category, service charging type and flag of selective service charging attribute, it acquires the flag of selective service charging attribute and the subordinate charging rule which are corresponding to the to-be-charged service; the sub-module for acquiring service charging attribute acquires the field name included in service charging attribute according to the flag of selective service charging attribute, and acquires the service charging attribute according to the field name included in service charging attribute, and transmits the subordinate charging rule to the charging processing module; transmitting service charging attribute to acquiring service charging rule sub-module;

when the sub-module for acquiring service charging rule receives the notification of not acquiring service charging attribute of the to-be-charged service, according to the mapping relation among the charging category, service charging type and flag of selective service charging attribute, it acquires the charging rule corresponding to the to-be-charged service and transmits the acquired charging rule to the charging processing module; when the sub-module for acquiring service charging rule receives the service charging attribute, it acquires the charging rule from the mapping relation between the service charging attribute and charging rule, and transmits the acquired charging rule to the charging processing module.